

Meeting Description: Michigan Geographic Framework Users Meeting

Date: November 4, 1999

Time: 10:00 a.m.

Location: Lewis Cass Bldg., 1st Floor, Dept. of Management and Budget Large Conference Room

I. Approval of October Meeting Minutes

II. Geographic Framework Program

A. MIC Project Update

1. Phase 2 Status

Rob Surber, Michigan Information Center (MIC), distributed a current status map. The MIC has completed 61 counties with only 4 counties (Tuscola, Lapeer, Livingston, and Muskegon) yet to introduce. The MIC is waiting for Aaron Burke, Livingston County, to finish quality control on their 9-1-1 updates then the file will be put into the MIC process. By next month Gogebic, Kalamazoo, Sanilac, Iosco, Lenawee, and Presque Isle counties would be completed. Kent County is about a month away from completion. Saginaw County may be a month away as well. The MIC is working with Wayne and Oakland counties using source materials and expertise from those counties. Rob stated that the MIC is working on counties that currently have source materials. The counties indicated on the status map as "Phase 2 Complete and MDOT Attributes Reintegrated" are fully attributed with MDOT data. These counties are ready for the seaming process at the county lines. MIC plans to seam the entire Upper Peninsula first. There is a lot of interest from MDOT to have a transportation region completed, therefore have begun seaming in the Upper Peninsula. There are 23 interfaces in the Upper Peninsula and it takes 2-3 days to complete an interface. Have finished seaming the Menominee and Marquette county line and the Dickinson and Marquette county line and are currently working on the Dickinson and Menominee county line. The digital ortho photos that were purchased recently and the digital raster graphic topo maps are tremendous help. Will be transitioning 3-4 people into the seaming effort. If there is interest in seamed county before the whole region is seamed, MIC can provide it for review. The Superior Region will be done the first of the year.

2. Repositioning

Rob Surber, MIC, stated that the MIC has taken suggestions and questions from the last meeting regarding positioning of framework line that have been done to date (including work done previous to MIC's part of the project, work done during the project, caliper conversions, etc). Eric Swanson and Rob Surber will schedule a pilot project to look at repositioning issues by end of year. They will look at standards related to repositioning by using the digital ortho's that are available. They will examine time and cost to get an estimate for the entire state. The advantage of framework is that it can trace what came from TIGER and can phase things in by working on the more grossly incorrect positional lines first. Will want to have a group get together to look at standards, needs and requirements of framework not only of state government but throughout the state. This will be the priority after the major part of framework seaming is finished.

3. Digital Ortho Photo Processing

Rob Surber, MIC, reported that at the last meeting he had mentioned that the MIC has purchased quarter quad level digital ortho photography that was available from United State Geological Survey (USGS).

Everett Root, MIC, reported the MIC purchased 1,321 quarter quads on 110 CDs in alphabetical order by quad name in Universal Transverse Mercator (UTM) NAD 83 meters. They have been processed through and projected to Michigan GeoRef NAD 83 meters. They have been reprojected and put back on CDs in alphabetical order. Now have a mirror copy in the new projection and will begin to mosaic counties into Mr. Sid format. Quarter quads are a little over 2 Meg - so can get 300 quarters on a CD. These are 1992, 1993, and 1994 - saved text file for each. The state may now have a little more than half of the state coverage. Will put together new map and a database indicating coverage. Each quarter quad is \$7.50 - about \$10,000 for the order. May try to go back and pick up what was missed.

Rob Surber, MIC, stated that he talked to Sherm Hollander, Michigan Department of Natural Resources (MDNR) as we create Mr. Sid files will give out CDs on a check out basis to be put on servers or make copies.

Talking about putting on web to try to make available to as many people as possible. Will also make the original format (GeoRef) available.

Everett Root, MIC, stated that Lizard Tech provides a free Internet server product.

Bill Enslin, Michigan State University Center for Remote Sensing and GIS, asked which resampling method was used during the projection process.

Everett Rott, MIC, responded that he has researched this and "Nearest Neighbor" was used.

III. Michigan State Government Geographic Information Policy Council

A. NSDI Clearinghouse and Statewide Survey Development

Rob Surber, MIC, shared an update of the clearinghouse survey for the group to review and noted there were significant changes. A focus group met to take the survey and provide feedback. As a result, there was useful discussion and a lot of good suggestions that were incorporated into the survey. Will be working on web version first part of December. IMAGIN will send out postcards to solicit contact names of people the survey should be sent to. Will be able to fill out on-line and can do part of the survey and since it will save the work, come back and finish it. There will be user passwords. The survey can be filled out as an individual and/or organization. Looks ominous, but it is designed to be a living, breathing document. Will also be working on the reporting side and how to query from a number of different angles what's been entered. Metadata for the organizations and businesses in Geographic Information Systems (GIS) will help establish relationships.

IV. Michigan Department of Natural Resources (MDNR) Projects and Activities

Gary Bilow, MDNR, reported that they have been working with USGS to determine what the remaining ortho photos for the state are and purchase them. USGS hasn't identified any money but they have partners who have money. There is \$750,000 in federal money that is dedicated for Michigan this year. The state must come up with funds to match. What we are able to contribute will determine what will get done based on a contact with private vendor. Where MIC paid \$7.50 per quad, MDNR is paying \$750 to have new ones prepared using 1998-99 photography. Yesterday MDNR's management team approved \$250,000 toward that effort. There are several different numbers, from \$1.2-1.8 million, to complete the state ortho photo coverage. It would not all be the same year class or the same format. The new photos are color infrared leaf-off.

Gary Bilow, MDNR, also reported that the MDNR delivered a pilot county to the people who manage the Real Estate Information System database. They did Cheboygan County first to try to resolve discrepancies between two different data sources – maintaining maps of state ownership and plat relational database file. They have converted the maps to GIS format and discovered discrepancies between the two. Cheboygan County had 80,000 parcels and had questions on 5-600. This project will be a big job. The Real Estate Information System (REIS) database is a big component of Executive Information System (EIS) Statewide Land Database (SWLDB) so it will be important to get it reviewed.

V. Michigan Department of Transportation (MDOT)

Gil Chesbro, MDOT, announced that MDOT is hosting a GIS Day November 19, 1999 from 10 a.m.-3 p.m. in the Transportation Building, 1st floor. This is mainly pointing at state government to increase GIS awareness. Will display posters in state buildings.

Joyce Newell, MDOT, reported that she attended the IMAGIN conference and had maps available for 41 counties and half of those counties were present and were happy to receive their maps. Now MDOT is sending ArcExplorer files and E00 files to each of the people who picked up maps. Terry McNinch, Roadsoft at Michigan Tech, will distribute the remaining maps at the County Road Commission meeting. MDOT also gave Terry a full set of the ArcExplorer files so that he can cut CDs. Working with Traffic Management System (TMS) team to decide how to incorporate framework into TMS referencing system. Considering attributing all-season roads using framework - will be a data file related to framework through physical reference (PR) numbers and mile points. This data will be available to other departments. MDOT will probably have MSI do the all-season attribution work. Anticipating that work will be done on counties that are completely through the

initial attribution. It is not MDOT data (the information is coming from the counties and cities data) and that is why it will not be directly on framework.

VI. MIC Projects and Activities

A. Address Clearinghouse Exploratory Committee

Rob Surber, MIC, reported that he and several other members of the group attended a national conference on addressing put on by URISA. The conference was actually more beneficial for people actually doing addressing. It is designed to help to empower local governments in readdress or establishing addresses. The MIC has been asked by several group in the state to pull together an address clearinghouse exploratory committee to look at the issue of having a clearinghouse for every part of the state from an official address number and street name perspectives. Rob has been gathering names of people either involved or interested in doing addressing and whether or not they would be interested in attending this committee meeting. Hopes to have a mailing by the end of the year. Has been in touch with 9-1-1 groups, townships, cities, counties, assessors, regional planning commissions, etc. and would like to have representation from a variety of areas. If interested, contact Rob Surber at (517) 373-7910 or e-mail at surberr@state.mi.us The group will set down a vision of what it sees the issues are and establish a skeleton framework to find common needs. They will not get specific on how it will be done and who is going to do it, but make sure that what is being done is well documented. Any statewide GIS initiative will reflect the standards. In a discussion with county and local level agencies in most cases agree that this is needed - just need somebody or some group to get the ball rolling. Looking for skeleton legislation to set bare bones minimum framework to work. A master list may be created from addresses.

B. IMAGIN Counties Conference/GIS in State Government Booth

Rob Surber, MIC, extended many thanks to all state agencies that participated in the state government booth at the IMAGIN Counties Conference/GIS. Passed out materials, demonstrated programs and data. Received favorable comments from attendees.

C. Michigan State Police (MSP) Initiative

Rob Surber, MIC, reported that the MSP are interested in establishing a crime interactive mapping program to be able to support information requests from the general public and police departments at the county and local levels. Having GIS capabilities will enable sharing of information. This is a large effort and MSP will probably do it gradually. The MIC will set up the program probably in ArcView and MSP will integrate their own addresses and do their own geocoding into framework. Eventually, MSP would like to do online web enabled work and have it be part of the state's spatial data warehouse of information.

VII. Michigan Department of Environmental Quality (MDEQ) Project and Activities

Rob Surber, MIC, reported that the MIC sent framework coverages as they have been seamed to USGS. The counties are in the Black and Macatawa Basin hydrological unit code (HUC) region and USGS will be taking the River Reach to 1:24000 scale.

Everett Root, MIC, added that USGS also asked for Van Buren and Berrien Counties. So the MIC seamed the hydrology at the county lines.

VIII. Regional Projects and Activities

Tammi Shepherd, SEMCOG, reported that SEMCOG is working on addressing authority documentation. Aaron Burke, Livingston County, and Jennifer Wills, SEMCOG, added new elements to documentation. Distributed a progress report and a draft for review.

Rob Surber, MIC, stated that he asked Aaron Burke, Livingston County, to speak to the group about the process they are using and how useful it is to have this documented, not only the ordinances, but what are the exceptions, what are the problem areas, what are the resolutions, etc.

Tammi Shepherd, SEMCOG, stated that the framework census geography is complete for Wayne and Livingston counties and the rest of the counties should be complete by the end of next week. SEMCOG is rebuilding census polygons on framework. Received the file back from Livingston County's consultant and

they had dropped some data. Aaron Burke asked Tammi to mention that the file is going to Oakland County where it will be prepared for the computer added dispatch (CAD) system and hope to be done by Friday. The file will then be returned to Tammi and she will reassign the lost data.

Rob Surber, MIC, stated that there is not a good data trail from the work that has been done and that makes it difficult to pick up where left off. The MIC will provide assistance as needed.

Tammi Shepherd, SEMCOG, stated that the Coordination Committee meeting has been rescheduled for November 9 at 1:30 p.m. A few people from the Regional Coordination Committee met to discuss the efforts in the region to get digital ortho photos. Almost all counties are flying digital ortho's at different scales and media. Tammi put together a table to showing types of photos that each agency is flying.

Laura Tschirhart, Tri-County Regional Planning Commission, reported that the pilot project from HNTB has been delayed.

Rob Surber, MIC, stated that he had received a call from HNTB asking how the MIC wants HNTB to handle edits and red-lining framework to be sure data is not lost. The MIC will be working closely with HNTB.

IX. Michigan State University (MSU) Center for Remote Sensing and GIS

Bill Enslin, MSU, distributed a status map displaying cleaning and building of lakes and 2-bank rivers. There are 47 counties complete and 36 remaining to do. The Center has hired more employees to try to meet the MDEQ rollout deadline, February 16, to SWAP partners (ground water education centers and participating county health departments). Realized there will be a handful of counties that will not be through Phase 2 in framework, but plan to continue cleaning and building. Will be running through Themer Program and after update process, will try to run through again.

Rob Surber, MIC, stated that the MIC would incorporate back into framework not immediately but perhaps when repositioning work is done.

Bill Enslin, MSU, commented that there would be some features on some of the lakes that did not come from framework, but were added from digital raster graphics (DRG) or other sources. Bill also reported that MSU, through the Extension Service, has land cover mapping for 3 townships in 3 counties as a test. The IMAGIN board set up an ad hoc Land-Cover Use Classification Committee that will be a work group to determine what classification systems are and develop a working document identifying the issues and guidelines to proceed on a statewide basis. A letter, regarding a meeting is scheduled for December 16, 10–2 p.m. MSU Center for Remote Sensing and GIS, will be going out to people that IMAGIN and MSU know are interested. The work group is set up for a limited number of people, but if interested, contact Jessica Moy at 353-7195.

X. County/Local Projects and Activities

Jeroen Wagendorp, Allegan County, reported that the Corps of Engineers adjusted their price. Jeroen is looking at framework data as it pertains to Allegan County and decided to eliminate the county's data because framework is nicer. He started superimposing framework layers and what the county has done. A lot of repositioning needs to take place especially in subdivisions. He added a decimal to county local minor roads to differentiate paved roads and unpaved roads. With uncertified roads, he needed to differentiate between trails and roads. Framework is a good database. Where new subdivisions were added, will have to verify address ranges. Might try to get involved with local postal delivery people.

Everett Root, MIC, commented that there is a discrepancy between the Corp's and USGS's ortho photos along Lake Michigan shoreline. Dave Gercszak, U.S. Army Corp of Engineers was contacted and will send more photos in UTM NAD 83 meters. Everett will take these photos through the same steps as the original photos that were sent to MIC that are in state plane NAD 83 feet.

Jeroen Wagendorp, Allegan County, commented that he has a concern about repositioning township by township – is the thinking to use the latest ortho.

Rob Surber, MIC, stated that if an agency does repositioning to a certain standard and to framework and if there is a level of interest to work together, it could be discussed.

Jeroen Wagendorp, Allegan County, commented that he likes the framework line work and the way it is attributed and would like to maintain the integrity of data and do repositioning.

Rob Surber, MIC, responded that they could look at it and that the MIC hasn't picked an area to do a pilot.

Jeroen Wagendorp, Allegan County, added that ortho's would be available by next summer. There are 4 townships that are done and 20 townships remaining. The quality of the ortho's exceeds federal standards. With advances in 9-1-1 and automatic vehicle locators (AVL), we are forced to use maximum accuracy.

Joyce Newell, MDOT, stated that MDOT would be interested in delineation of road system and any comments.

Dave Shinavier, Barry County, added that they are experiencing the same positioning issue. At least 10 counties bought a GPS and have been driving centerlines and notice a significant deviation of position. Instead of using photos, will be converting attributes to GPS driven centerlines because it compared to section corner GPS.

Rob Surber, MIC, stated the key is to use same referencing.

Jeroen Wagendorp, Allegan County, commented that you could take centerline GPS data and reposition framework materials and have the benefit of framework that it is loaded like a Christmas tree.

Dave Shinavier, Barry County, commented that they have their own set of attributes for their roads.

Rob Surber, MIC, stated that people would continue to reposition. If agencies adopt physical reference (PR) number system, we will be able to exchange information.

Bill Enslin, MSU, stated that this could be an opportunity for the state to capture control system network for those counties that are not using framework.

Rob Surber, MIC, stated might want to consider somebody to capture enough information that it could be help with centerline repositioning.

XI. Federal Projects and Activities

Nobody in attendance.

XII. Other Issues

Lorri Peltz-Lewis, Nature Conservancy Michigan Natural Features Inventory, commented that GeoInfo Systems – September 1999 has an interesting summary of a survey done in Nevada. The article is called "Framework Data Survey, Preliminary Report" written by Rebecca Somers.

Carol Woodman, Michigan State Industries (MSI), reported that they completed MDOT attributes for 3 more counties in October and have 3 counties in-house now. They had problems with nodes having duplicate id numbers. They have written an AML that does a node frequency check and they are willing to share it with people who may be interested. Arenac, Houghton, Iron, and Van Buren counties have been passed back to MDOT. They have done this project below the estimated cost.

Robin Roberts, Michigan Department of State (MDOS), asked if anybody has a shape file of Detroit. Tammi Shepherd, SEMCOG, responded that they do.

XIII. Next Meeting Date

December 9, 1999, 10 a.m. until 12 p.m., Lewis Cass Building, 6th Floor, North Wing, Department of Community Health Conference Room

** If any changes or corrections are to be made to these minutes, please contact the Michigan Information Center at (517) 373-7910.